

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032219\
 Data File : VN054576.D
 Acq On : 23 Mar 2019 00:30
 Operator : JC/SP
 Sample : K2045-02
 Misc : 5.45u/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB439-190318-(13-14)MS

Quant Time: Mar 23 02:38:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	534983	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	835643	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	722136	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	301953	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	340336	51.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.30%	
35) Dibromofluoromethane	7.59	113	255010	47.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.74%	
50) Toluene-d8	10.09	98	1015249	50.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.32%	
62) 4-Bromofluorobenzene	12.40	95	336006	48.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.58%	

Target Compounds

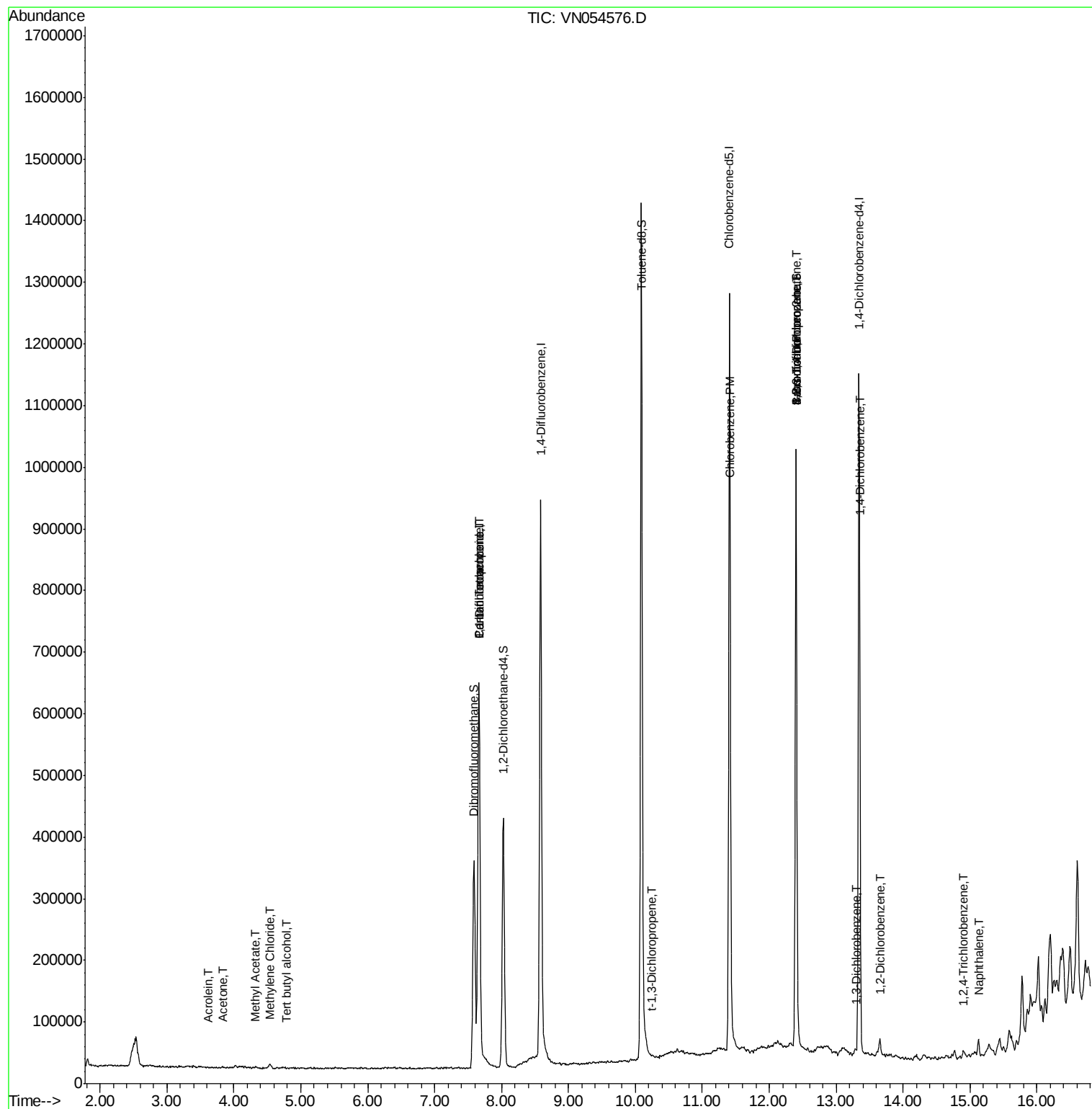
						Qvalue
11) Tert butyl alcohol	4.79	59	126	0.313	ug/l #	70
13) Acrolein	3.62	56	186	0.335	ug/l #	55
16) Acetone	3.83	43	900	0.450	ug/l #	66
18) Methyl Acetate	4.33	43	4402	0.987	ug/l #	72
20) Methylene Chloride	4.54	84	4096	0.695	ug/l #	80
31) Cyclohexane	7.66	56	12141	Below Cal	#	10
36) 1,1-Dichloropropene	7.66	75	39524	5.059	ug/l #	49
38) Carbon Tetrachloride	7.66	117	49852	6.566	ug/l #	16
53) t-1,3-Dichloropropene	10.25	75	75	2.241	ug/l #	42
65) Chlorobenzene	11.43	112	3682	0.251	ug/l	99
71) Bromoform	12.41	173	1063	2.500	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	171102	35.709	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	171102	118.465	ug/l #	11
87) 1,3-Dichlorobenzene	13.29	146	2445	0.244	ug/l #	79
88) 1,4-Dichlorobenzene	13.36	146	4400	0.452	ug/l #	40
91) 1,2-Dichlorobenzene	13.65	146	8516	0.879	ug/l	93
93) 1,2,4-Trichlorobenzene	14.91	180	1874	0.388	ug/l	89
94) Hexachlorobutadiene	15.00	225	97	Below Cal	#	35
95) Naphthalene	15.14	128	2265	0.210	ug/l #	18

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.01 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

Instrument :

MSVOA_N

ClientSampleId :

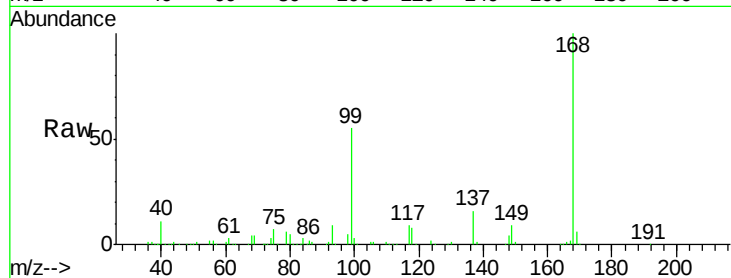
WP022SB439-190318-(13-14)MS

Tot Ion:168 Resp: 534983

Ion Ratio Lower Upper

168 100

99 54.7 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

200000

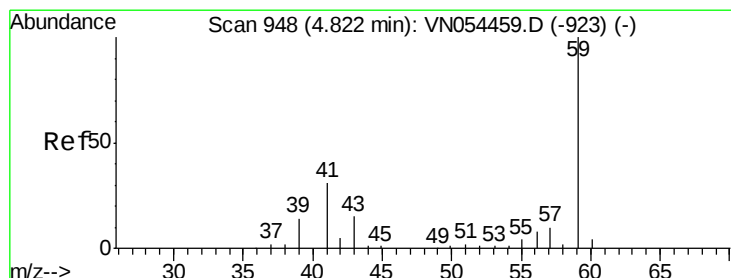
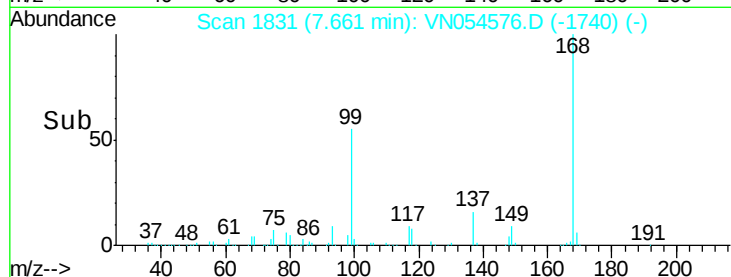
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.313 ug/l

RT: 4.79 min Scan# 939

Delta R.T. -0.03 min

Lab File: VN054576.D

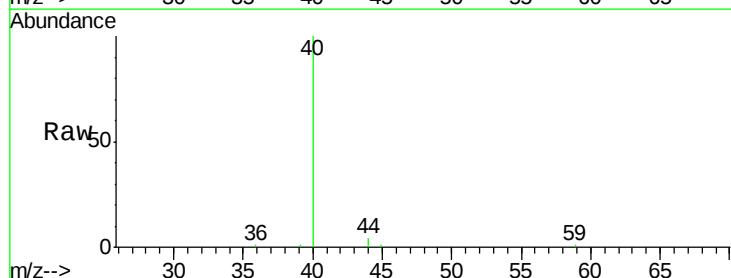
Acq: 23 Mar 2019 00:30

Tgt Ion: 59 Resp: 126

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.79

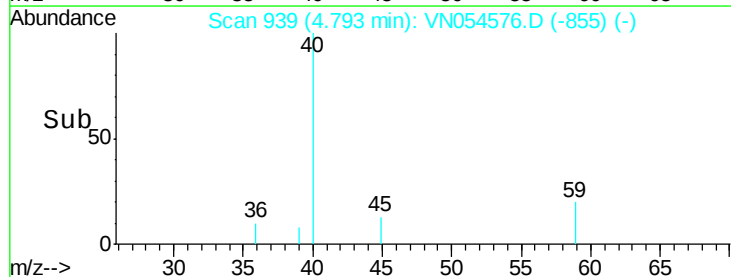
300

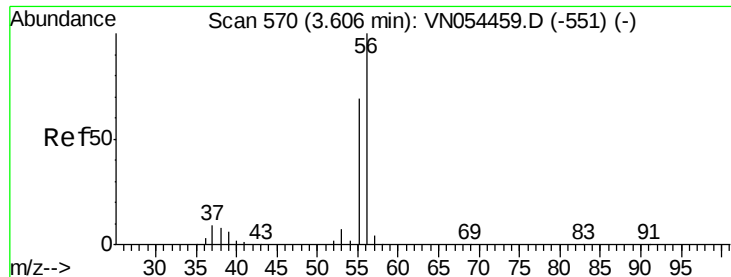
200

100

0

Time-->





#13

Acrolein

Concen: 0.335 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

Instrument :

MSVOA_N

ClientSampleId :

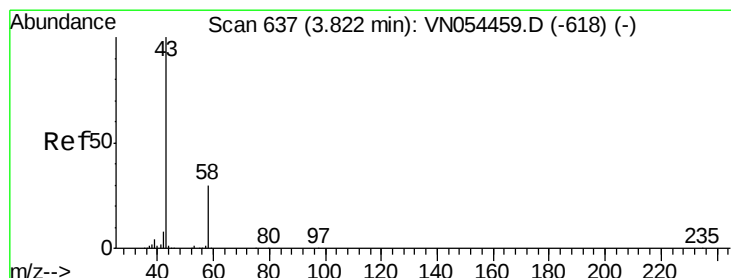
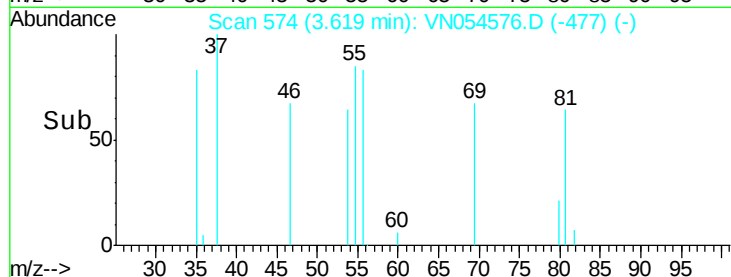
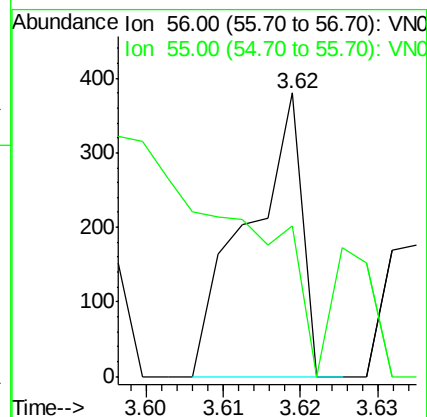
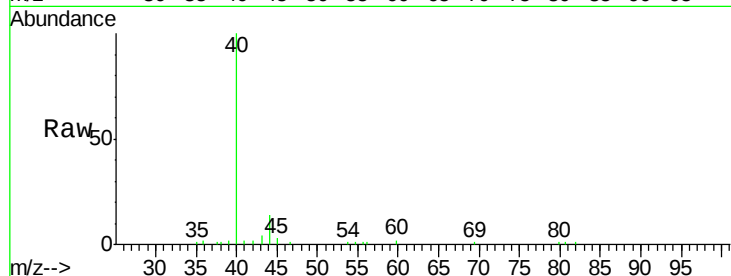
WP022SB439-190318-(13-14)MS

Tot Ion: 56 Resp: 186

Ion Ratio Lower Upper

56 100

55 33.9 56.7 85.1#



#16

Acetone

Concen: 0.450 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN054576.D

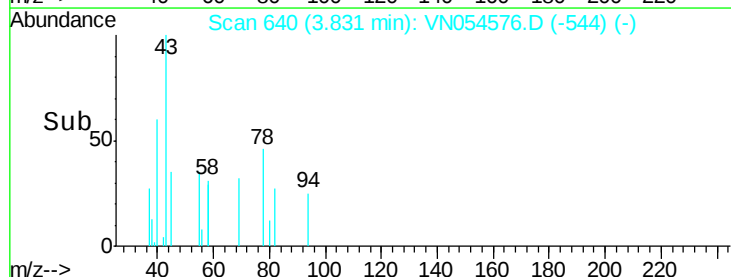
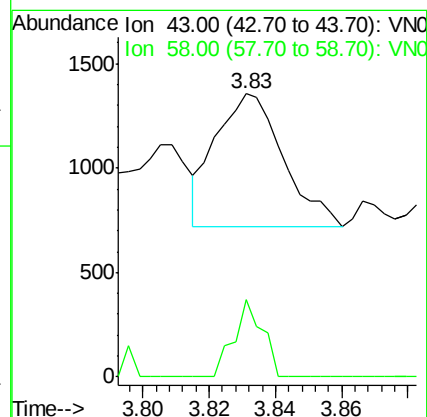
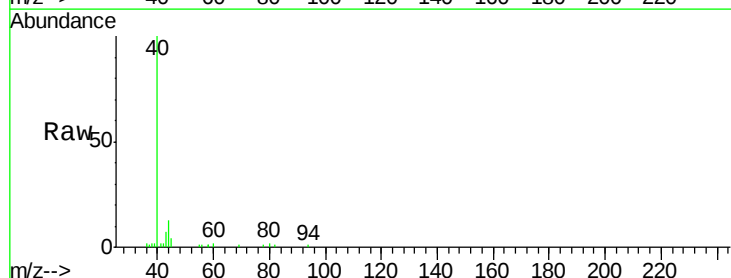
Acq: 23 Mar 2019 00:30

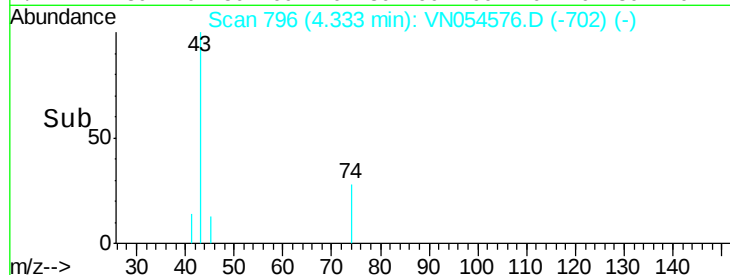
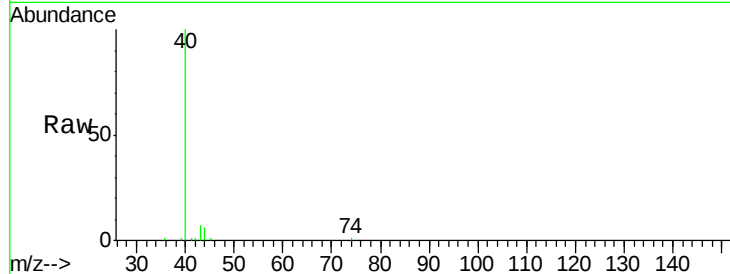
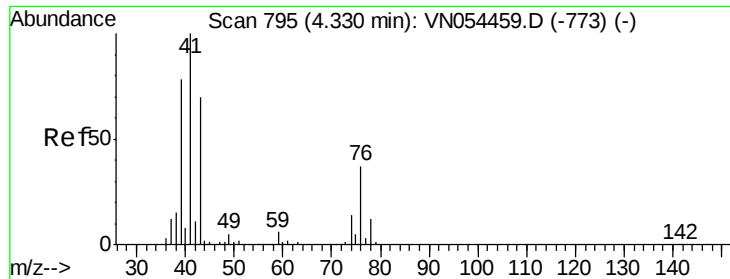
Tgt Ion: 43 Resp: 900

Ion Ratio Lower Upper

43 100

58 57.8 29.9 44.9#

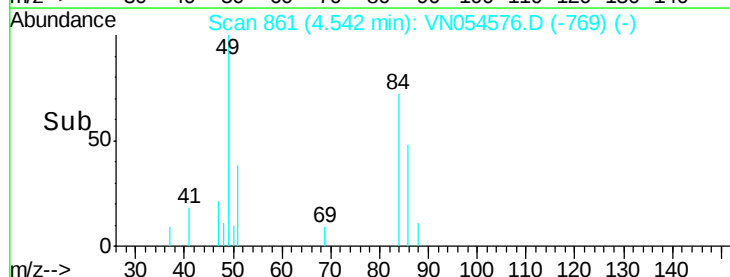
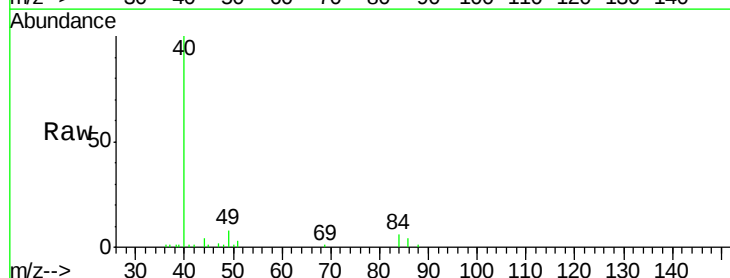
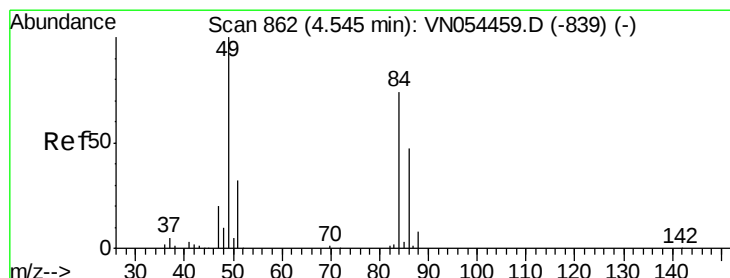
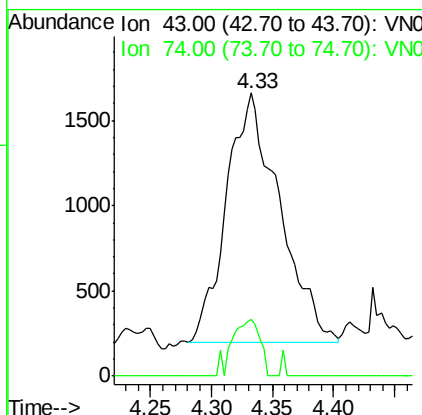




#18
Methyl Acetate
Concen: 0.987 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054576.D
Acq: 23 Mar 2019 00:30

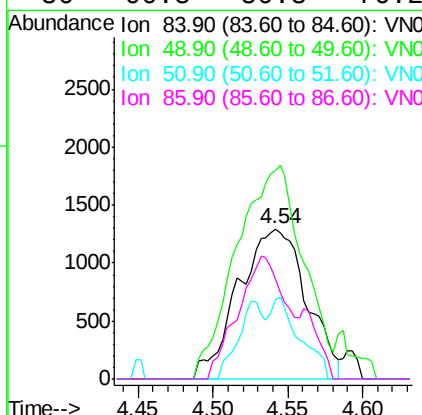
Instrument :
MSVOA_N
ClientSampleId :
WP022SB439-190318-(13-14)MS

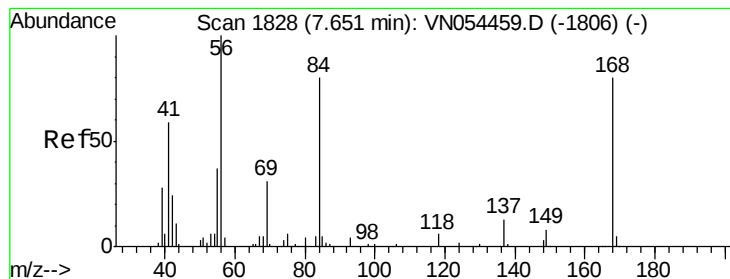
Tot Ion: 43 Resp: 4402
Ion Ratio Lower Upper
43 100
74 11.9 20.8 31.2#



#20
Methylene Chloride
Concen: 0.695 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN054576.D
Acq: 23 Mar 2019 00:30

Tgt Ion: 84 Resp: 4096
Ion Ratio Lower Upper
84 100
49 139.5 89.7 134.5#
51 52.6 28.2 42.4#
86 66.8 50.8 76.2





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

Instrument :

MSVOA_N

ClientSampleId :

WP022SB439-190318-(13-14)MS

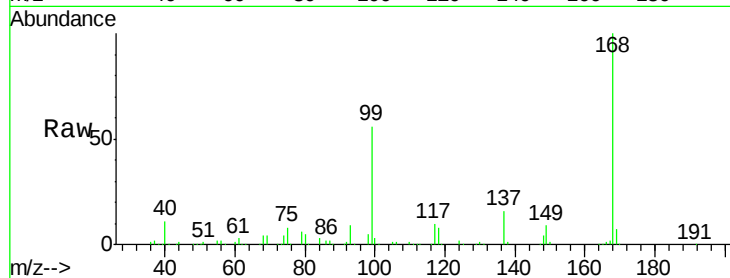
Tot Ion: 56 Resp: 12141

Ion Ratio Lower Upper

56 100

69 163.8 27.8 41.6#

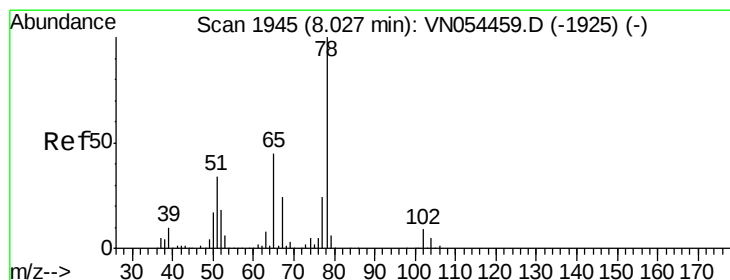
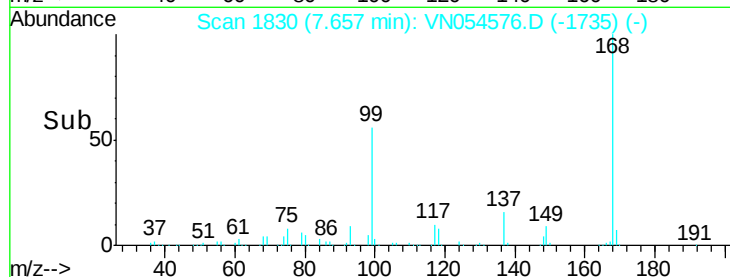
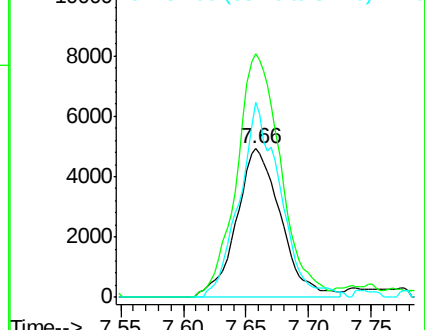
84 131.4 74.6 111.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 51.145 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. -0.00 min

Lab File: VN054576.D

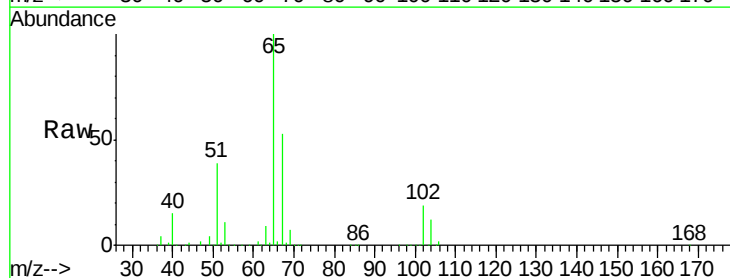
Acq: 23 Mar 2019 00:30

Tgt Ion: 65 Resp: 340336

Ion Ratio Lower Upper

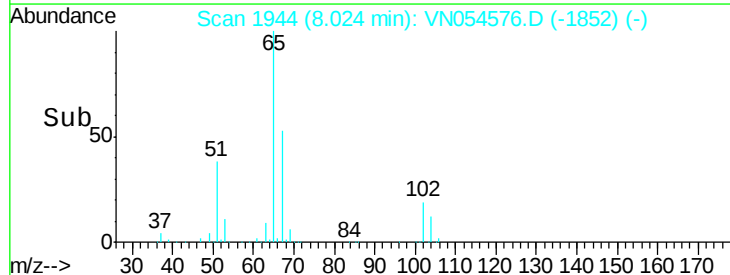
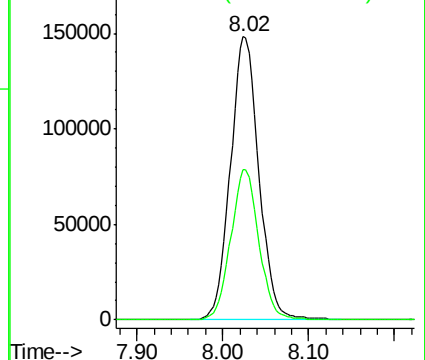
65 100

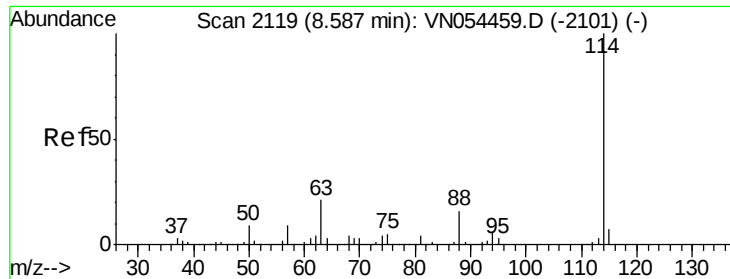
67 52.4 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

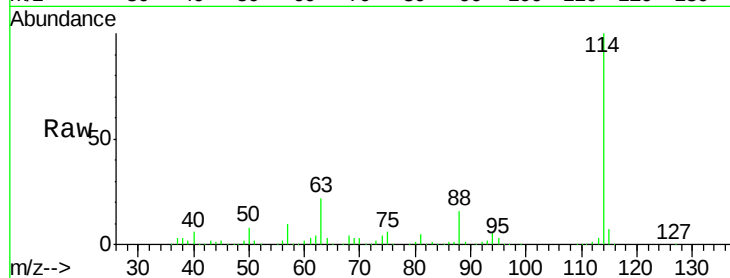




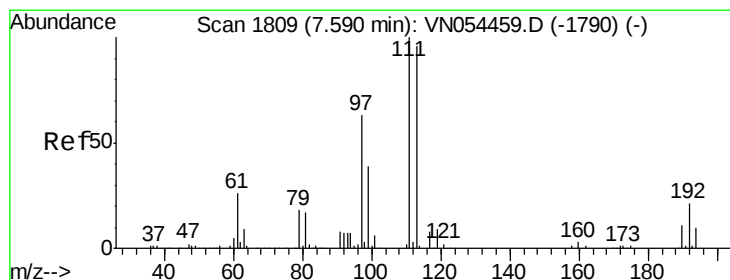
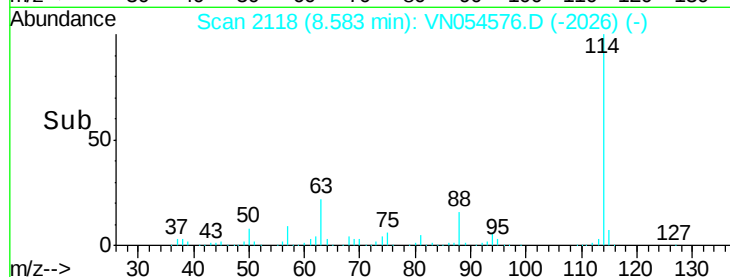
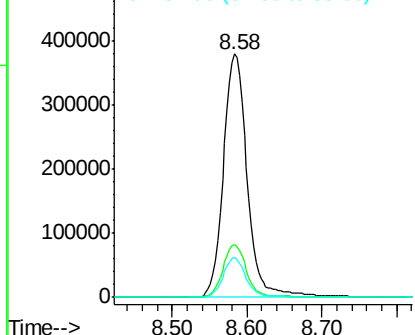
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN054576.D
Acq: 23 Mar 2019 00:30

Instrument :
MSVOA_N
ClientSampleId :
WP022SB439-190318-(13-14)MS

Tot Ion:114 Resp: 835643
Ion Ratio Lower Upper
114 100
63 21.7 0.0 35.2
88 16.3 0.0 30.2

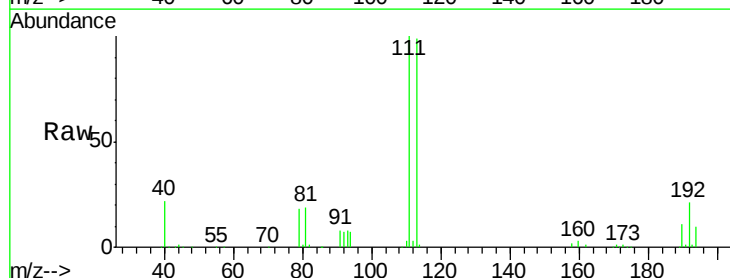


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

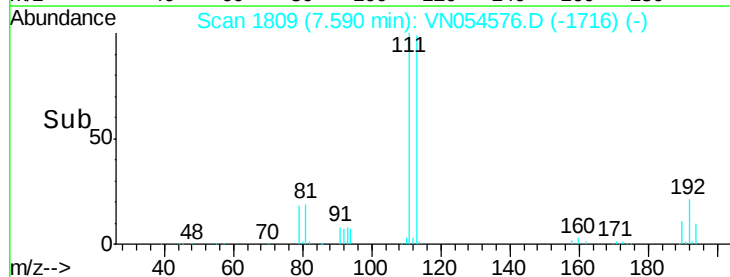
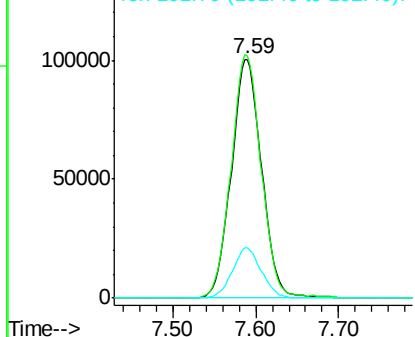


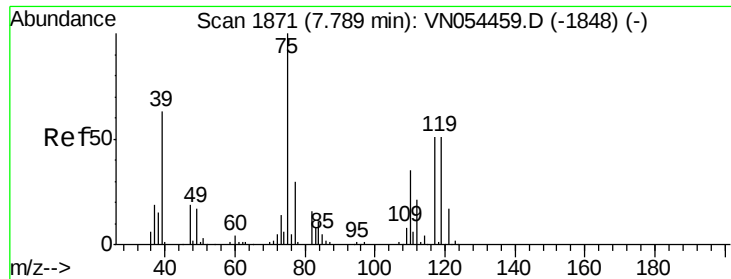
#35
Dibromofluoromethane
Concen: 47.368 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN054576.D
Acq: 23 Mar 2019 00:30

Tgt Ion:113 Resp: 255010
Ion Ratio Lower Upper
113 100
111 101.6 82.2 123.4
192 20.3 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.059 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

Instrument :

MSVOA_N

ClientSampleId :

WP022SB439-190318-(13-14)MS

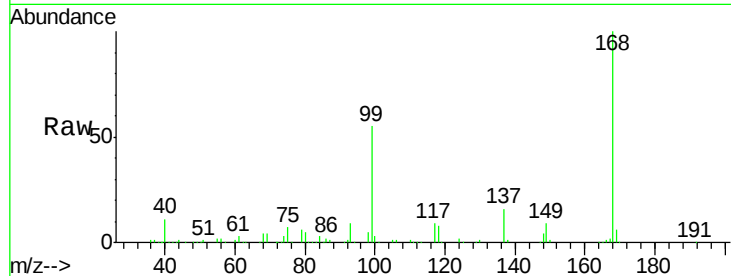
Tot Ion: 75 Resp: 39524

Ion Ratio Lower Upper

75 100

110 10.5 19.1 57.5#

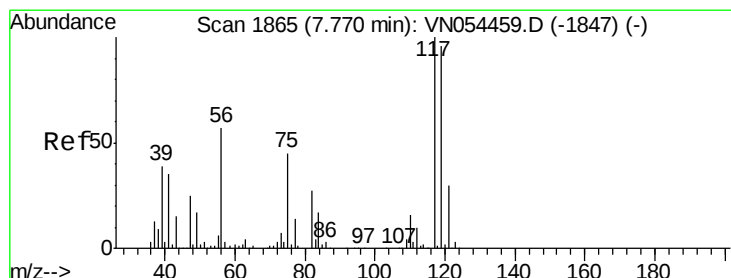
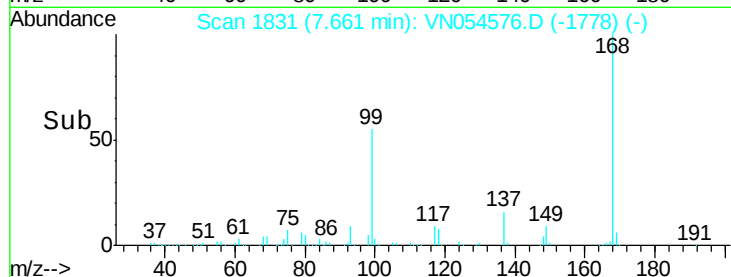
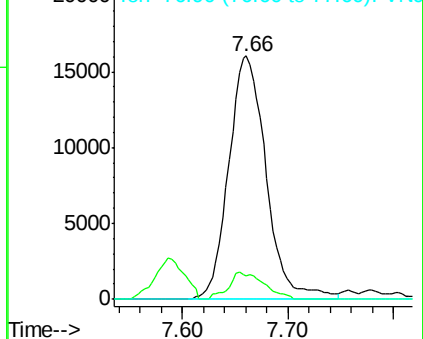
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 6.566 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

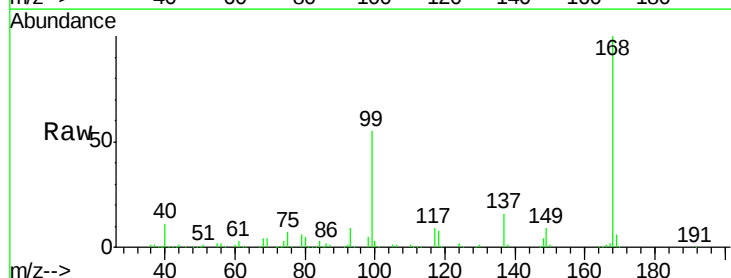
Tgt Ion: 117 Resp: 49852

Ion Ratio Lower Upper

117 100

119 5.2 76.3 114.5#

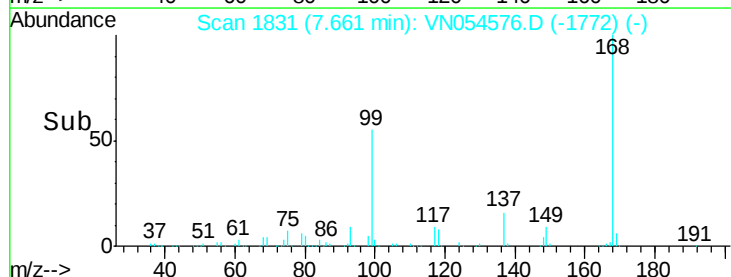
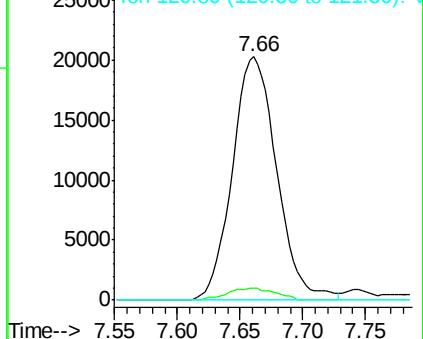
121 0.0 24.6 36.8#

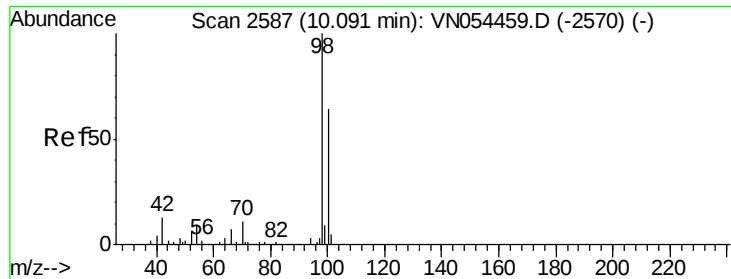


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 50.163 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

Instrument :

MSVOA_N

ClientSampleId :

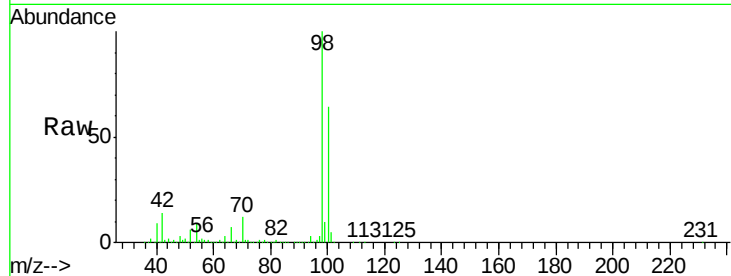
WP022SB439-190318-(13-14)MS

Tot Ion: 98 Resp: 1015249

Ion Ratio Lower Upper

98 100

100 63.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054459.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN054459.D (-2570) (-)

10.09

600000

500000

400000

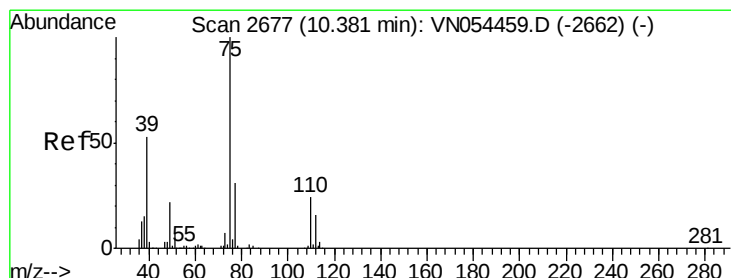
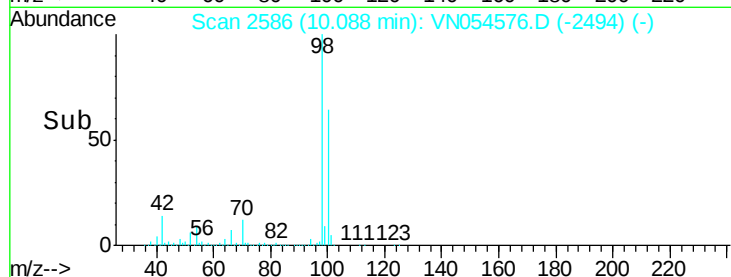
300000

200000

100000

0

Time-->



#53

t-1,3-Dichloropropene

Concen: 2.241 ug/l

RT: 10.25 min Scan# 2635

Delta R.T. -0.13 min

Lab File: VN054576.D

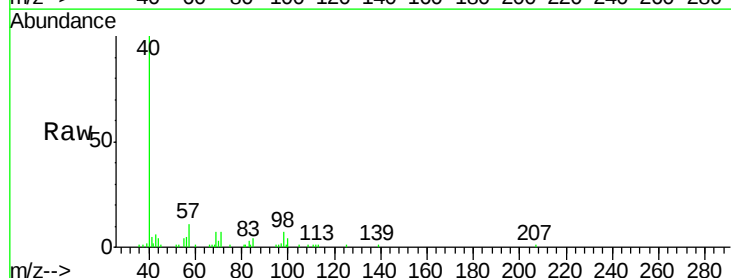
Acq: 23 Mar 2019 00:30

Tgt Ion: 75 Resp: 75

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-2662) (-)

Ion 76.90 (76.60 to 77.60): VN054459.D (-2662) (-)

10.25

200

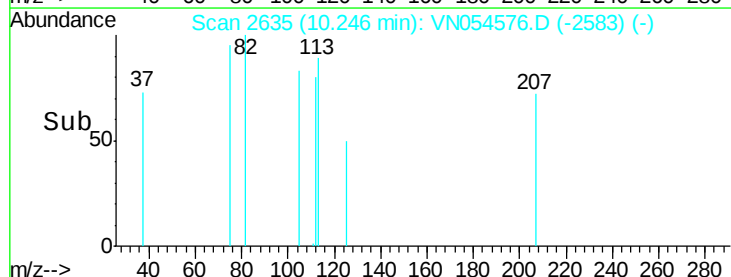
150

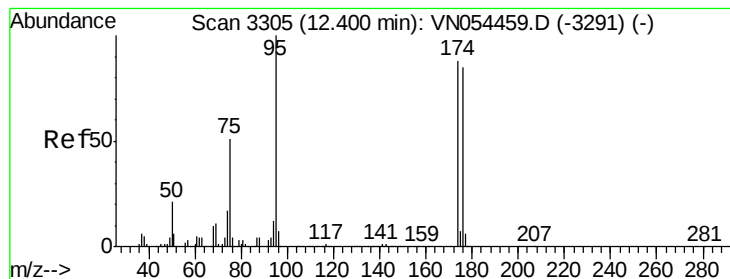
100

50

0

Time-->





#62

4-Bromofluorobenzene

Concen: 48.788 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

Instrument :

MSVOA_N

ClientSampleId :

WP022SB439-190318-(13-14)MS

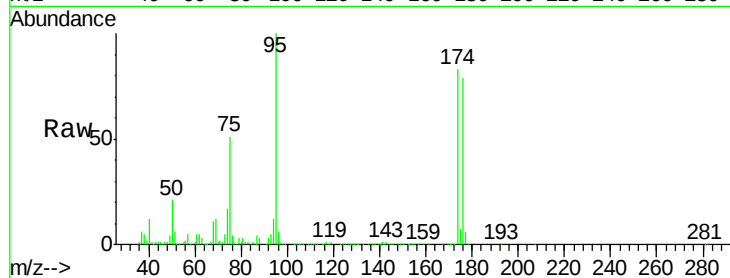
Tot Ion: 95 Resp: 336006

Ion Ratio Lower Upper

95 100

174 83.0 0.0 191.0

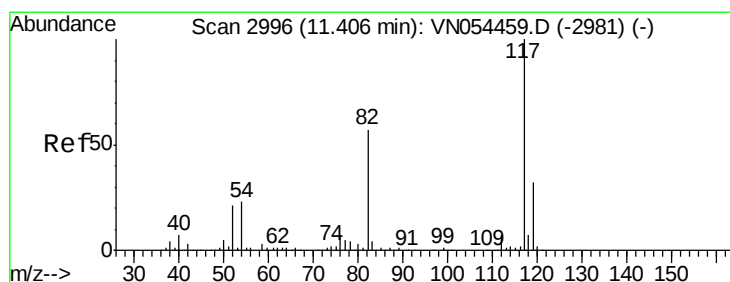
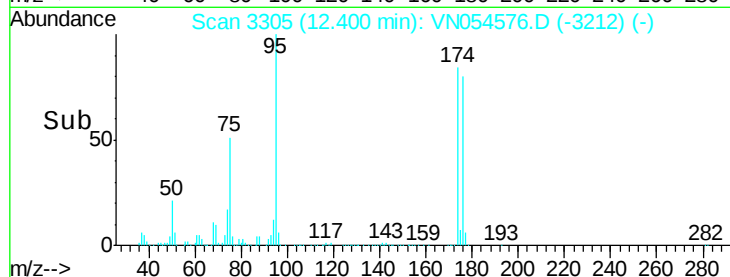
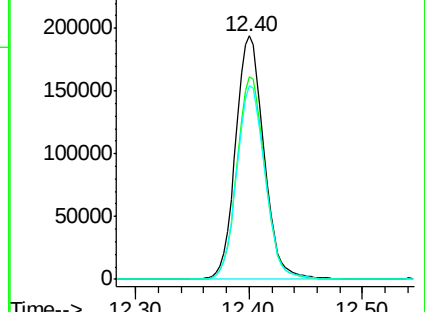
176 80.5 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054459.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN054459.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN054459.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

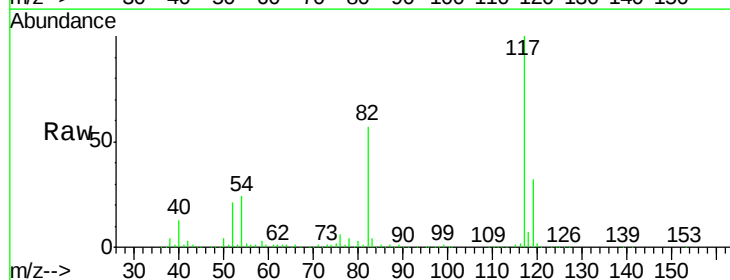
Tgt Ion: 117 Resp: 722136

Ion Ratio Lower Upper

117 100

82 56.5 40.0 60.0

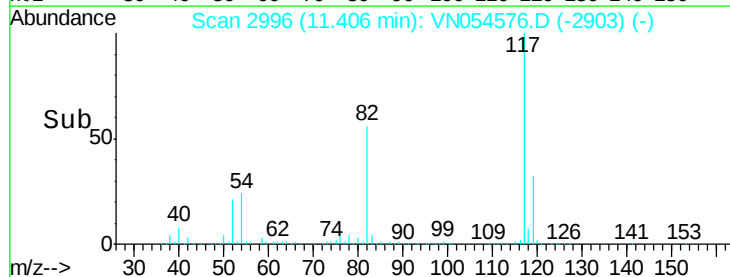
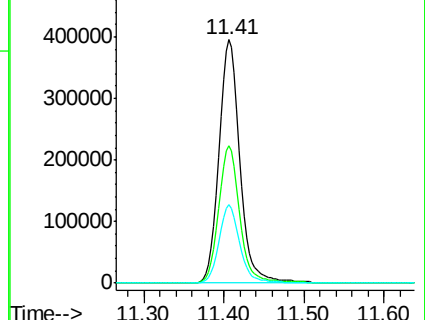
119 32.1 25.8 38.6

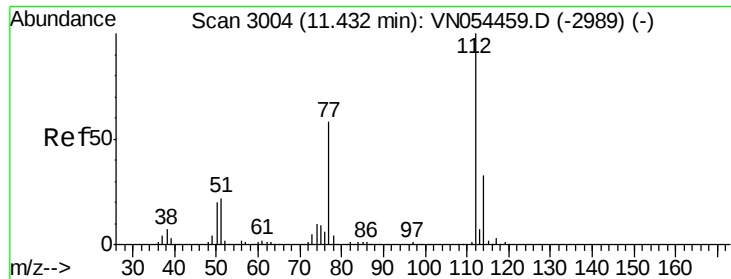


Abundance Ion 116.90 (116.60 to 117.60): VN054459.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN054459.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN054459.D (-2981) (-)





#65

Chlorobenzene

Concen: 0.251 ug/l

RT: 11.43 min Scan# 3002

Delta R.T. -0.01 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

Instrument :

MSVOA_N

ClientSampleId :

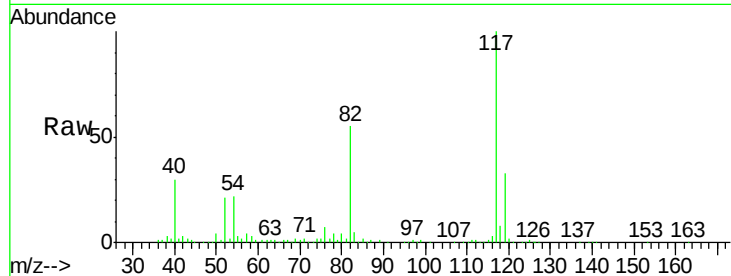
WP022SB439-190318-(13-14)MS

Tot Ion:112 Resp: 3682

Ion Ratio Lower Upper

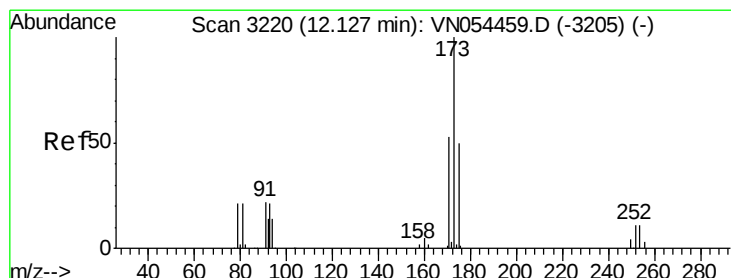
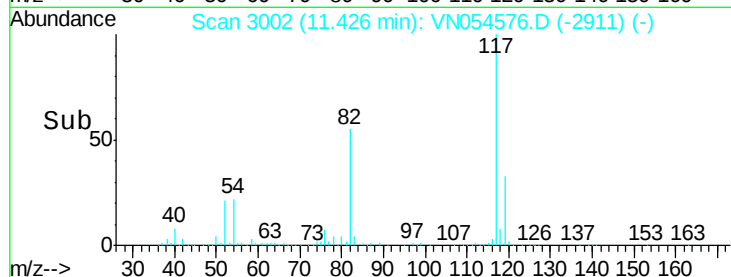
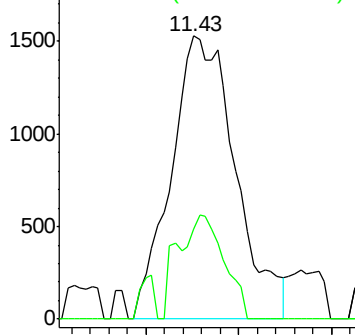
112 100

114 31.9 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#71

Bromoform

Concen: 2.500 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

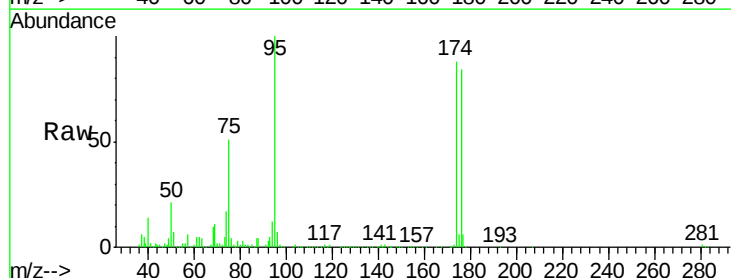
Tgt Ion:173 Resp: 1063

Ion Ratio Lower Upper

173 100

175 1736.9 24.4 73.2#

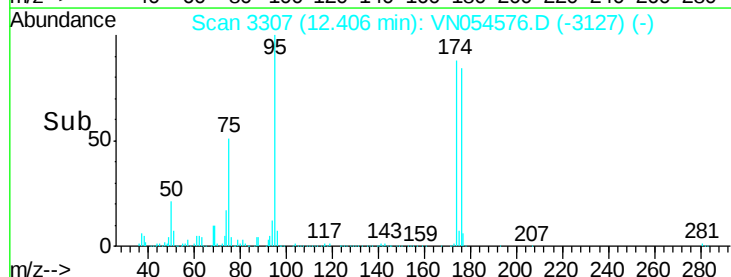
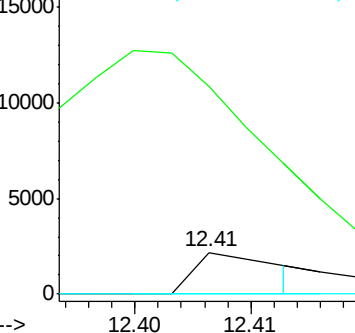
254 0.0 0.1 0.1#

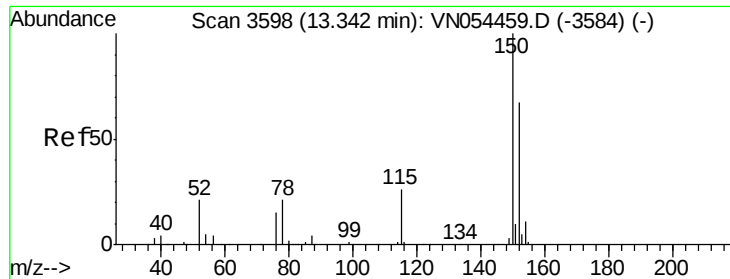


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

Instrument :

MSVOA_N

ClientSampleId :

WP022SB439-190318-(13-14)MS

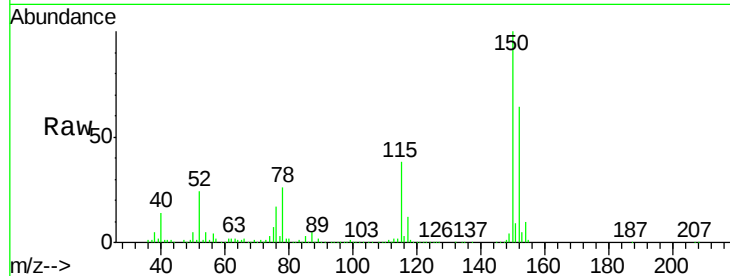
Tot Ion:152 Resp: 301953

Ion Ratio Lower Upper

152 100

115 57.6 27.2 81.6

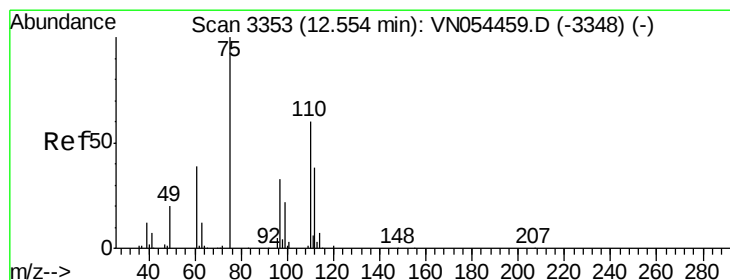
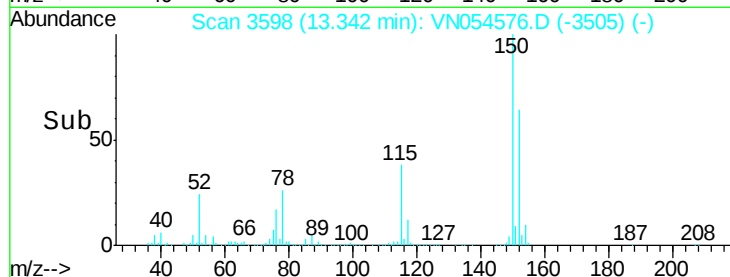
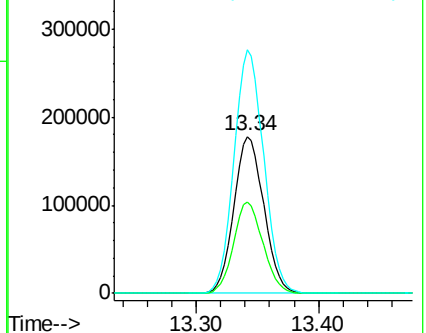
150 154.2 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 35.709 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054576.D

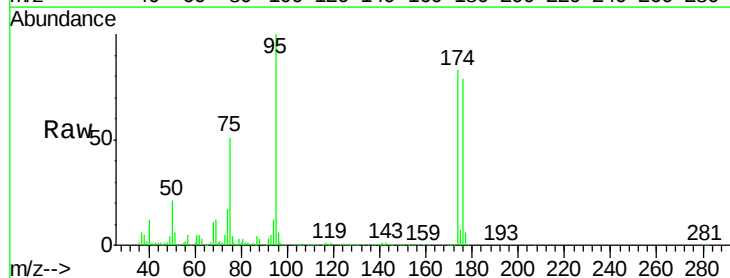
Acq: 23 Mar 2019 00:30

Tgt Ion: 75 Resp: 171102

Ion Ratio Lower Upper

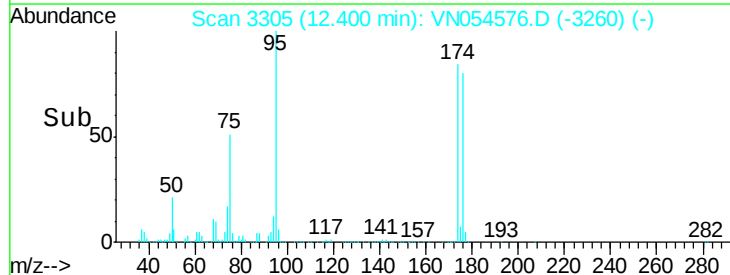
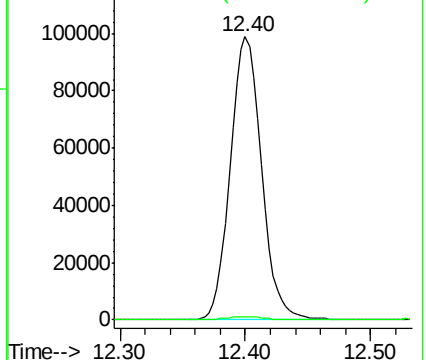
75 100

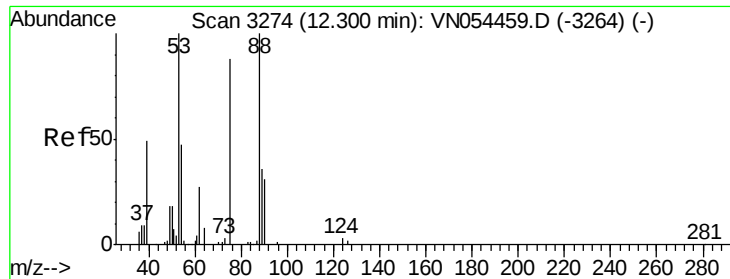
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 118.465 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

Instrument :

MSVOA_N

ClientSampleId :

WP022SB439-190318-(13-14)MS

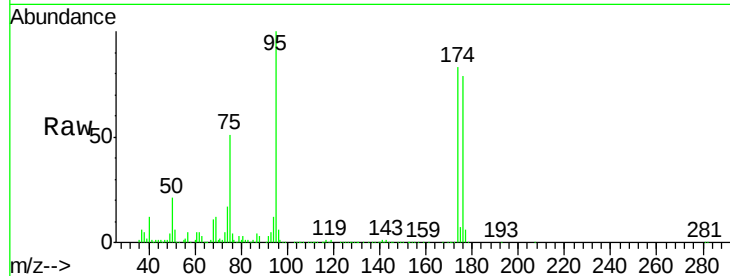
Tot Ion: 75 Resp: 171102

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

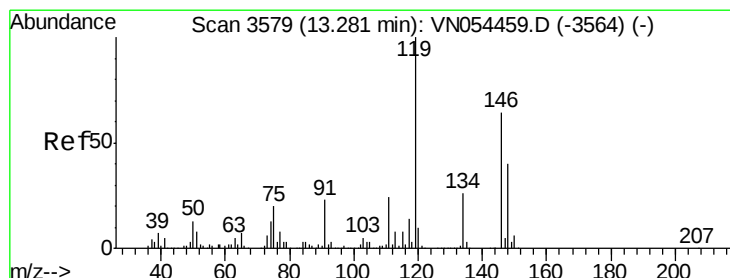
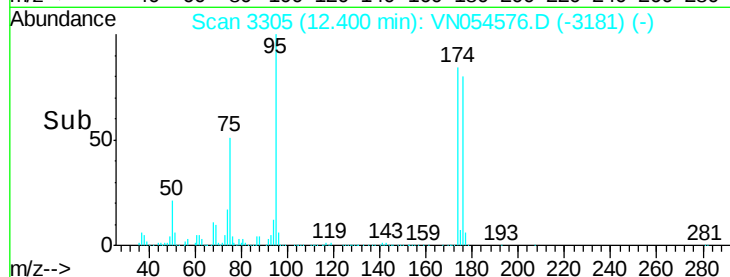
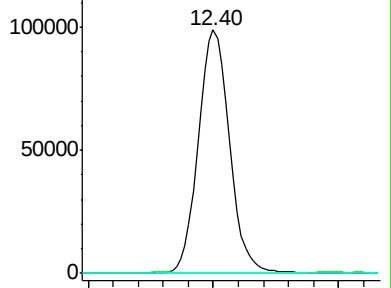
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN054459.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN054459.D (-3264) (-)



#87

1,3-Dichlorobenzene

Concen: 0.244 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.01 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

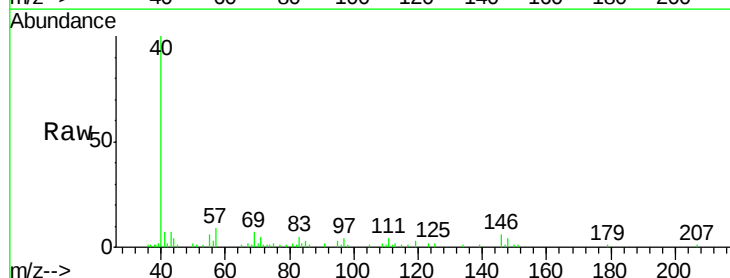
Tgt Ion: 146 Resp: 2445

Ion Ratio Lower Upper

146 100

111 63.0 18.8 56.3#

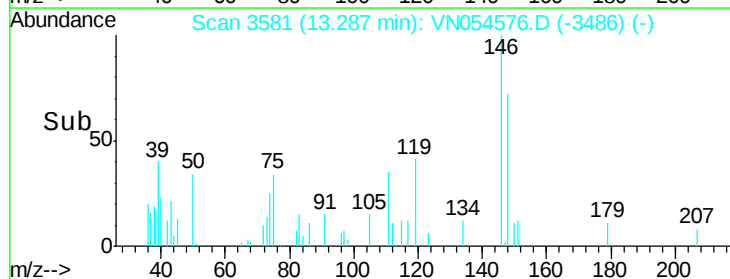
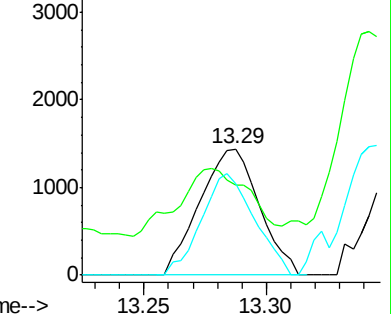
148 71.1 32.2 96.6

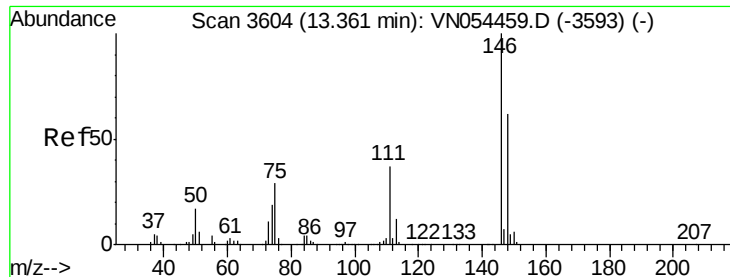


Abundance Ion 145.90 (145.60 to 146.60): VN054459.D (-3564) (-)

Ion 110.90 (110.60 to 111.60): VN054459.D (-3564) (-)

Ion 147.90 (147.60 to 148.60): VN054459.D (-3564) (-)





#88

1,4-Dichlorobenzene

Concen: 0.452 ug/l

RT: 13.36 min Scan# 3604

Delta R.T. -0.00 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

Instrument :

MSVOA_N

ClientSampleId :

WP022SB439-190318-(13-14)MS

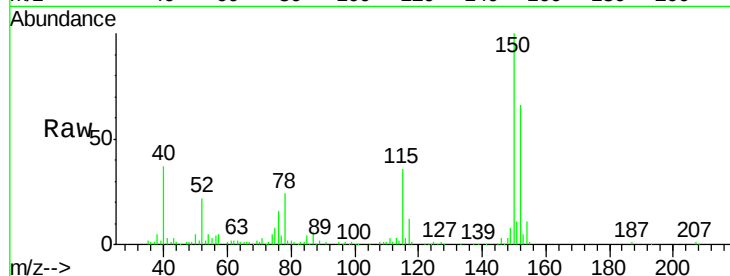
Tot Ion:146 Resp: 4400

Ion Ratio Lower Upper

146 100

111 0.0 18.1 54.1#

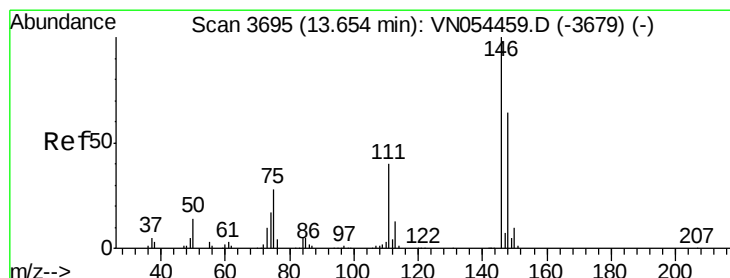
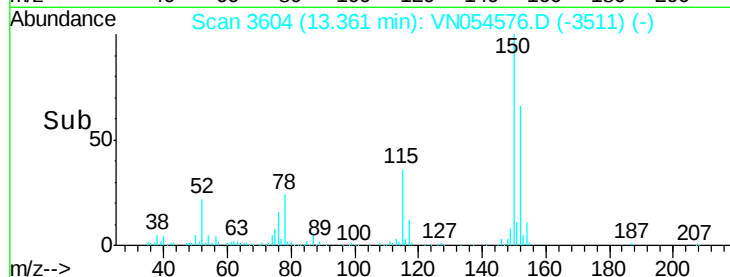
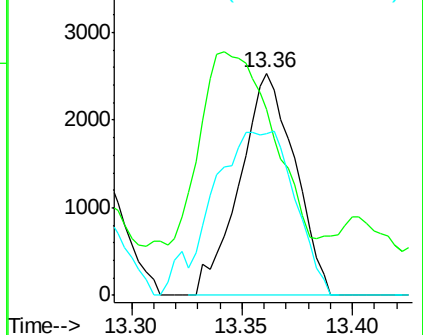
148 110.6 32.0 96.0#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 0.879 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

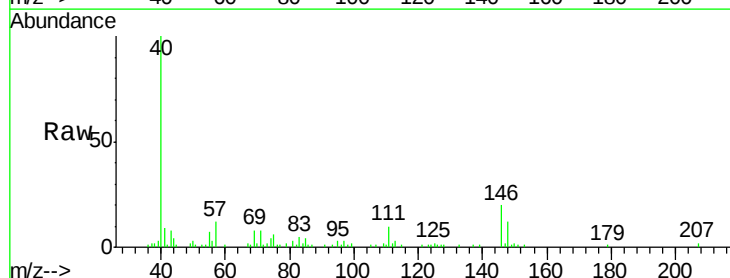
Tgt Ion:146 Resp: 8516

Ion Ratio Lower Upper

146 100

111 40.0 19.1 57.3

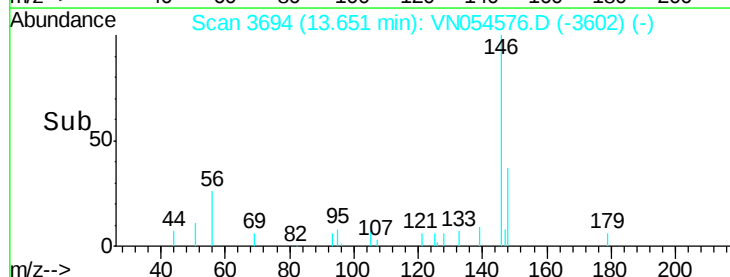
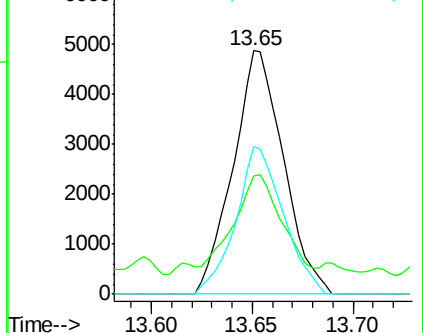
148 57.1 32.4 97.0

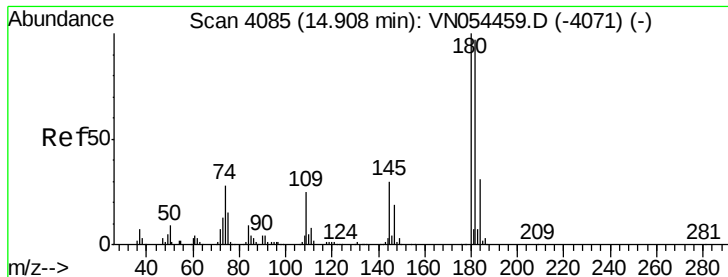


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#93

1,2,4-Trichlorobenzene

Concen: 0.388 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

Instrument :

MSVOA_N

ClientSampleId :

WP022SB439-190318-(13-14)MS

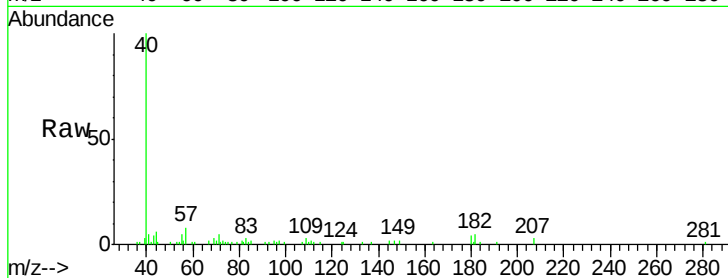
Tot Ion:180 Resp: 1874

Ion Ratio Lower Upper

180 100

182 104.9 48.0 144.2

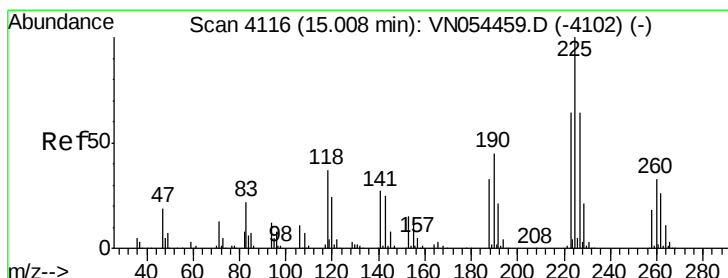
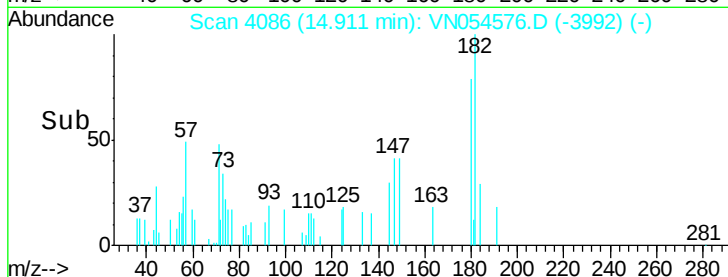
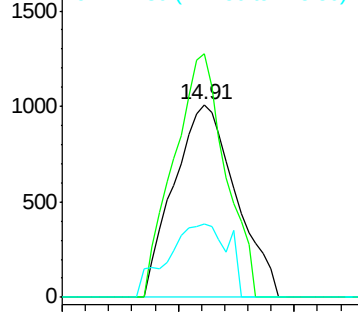
145 37.0 14.2 42.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

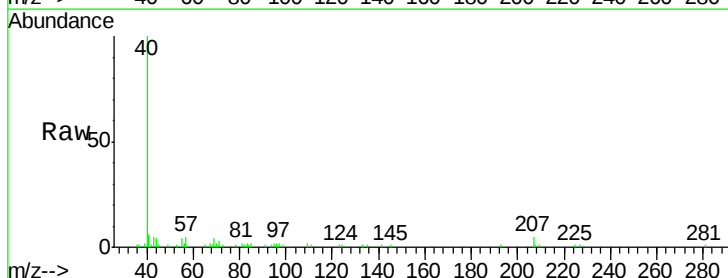
Tgt Ion:225 Resp: 97

Ion Ratio Lower Upper

225 100

223 114.4 31.1 93.5#

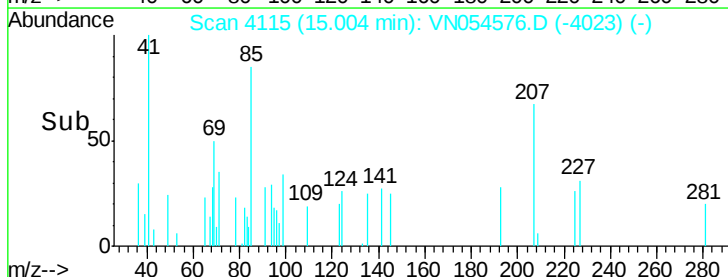
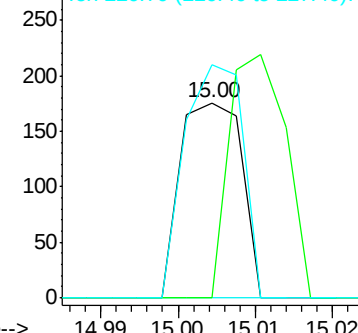
227 113.4 31.9 95.9#

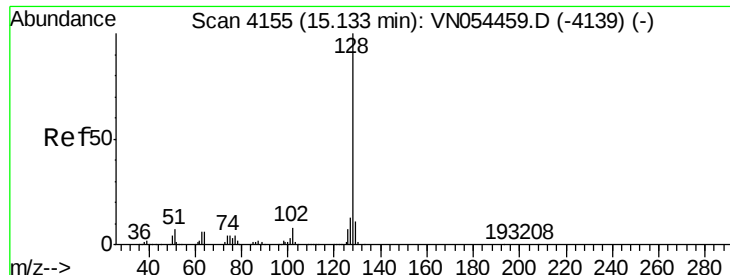


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 0.210 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN054576.D

Acq: 23 Mar 2019 00:30

Instrument :

MSVOA_N

ClientSampleId :

WP022SB439-190318-(13-14)MS

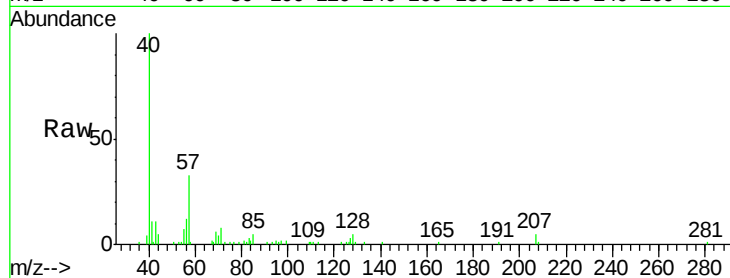
Tot Ion:128 Resp: 2265

Ion Ratio Lower Upper

128 100

127 71.3 10.1 15.1#

129 12.2 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

